

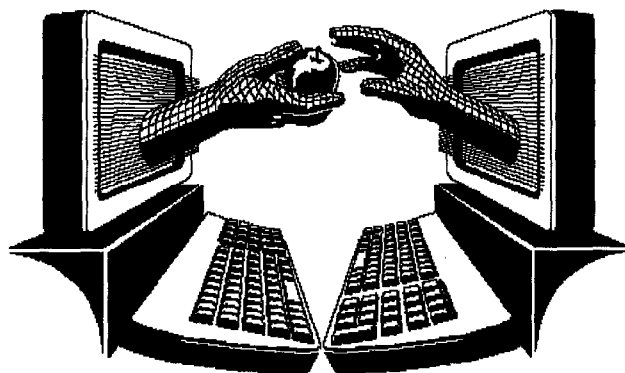
Review of Kansas Board of Healing Arts Professional Data

**Volume I
Physicians**

2000 Renewals

Health Care Data Governing Board

Roderick L. Bremby, Chairman



2nd Edition

April 2003

Review of Kansas Board of Healing Arts Professional Data

Volume I
Physicians

2000 Renewals

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Executive Summary

In 2000, surveys returned with the Kansas Board of Healing Arts license renewal forms showed that:

- There were 4,509 Doctors of Medicine (MD) and 443 Doctors of Osteopathy (DO) actively practicing in Kansas.
- Approximately half of the MDs and one-third of the DOs were aged 45-54.
- Approximately four of five physicians, both MDs and DOs, were male. The percentage of female physicians varied from 4.7% in the 65-and-over age group to 41.5% in the under-35 age group, reflecting the continuing influx of females into medical practice.
- In 2000, 14.1 percent of the physicians who answered the question “Are you a graduate of a foreign medical school?” answered “yes.” This compares to 1995, when only 3.4 percent identified themselves as graduates of a foreign medical school.
- Approximately one third of the physicians, both MDs and DOs, indicated that their primary work site was a partnership/group practice.
- 51.8 percent of MDs and 71.1 percent of DOs listed as a specialty one or more of the primary care specialties: family practice, general practice, internal medicine, pediatrics, or obstetrics/gynecology.
- There was the highest number of persons per MD (1,389) in Frontier counties, and the lowest (488) in Urban counties (see page 13 for a definition of Peer Groups of counties and Appendix D for a map of Kansas counties by Peer Group).

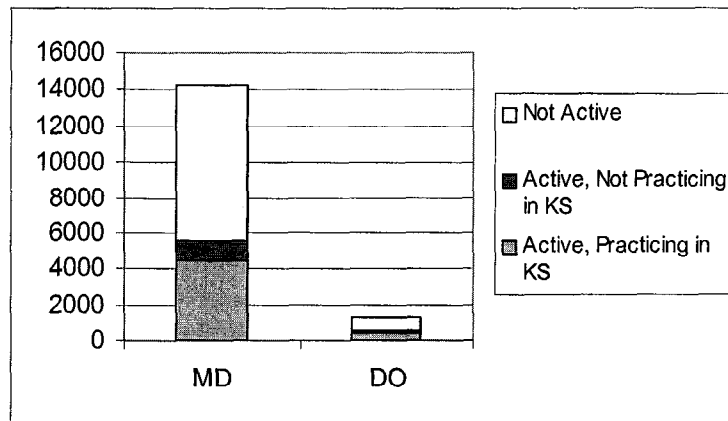
Introduction

This document, "Review of the Kansas Board of Healing Arts Professional Data, Volume I, Physicians, 2000 Renewals", is part of a series of publications requested by the Health Care Data Governing Board to make information available about the health care system in the state of Kansas. A brief summary regarding the request for an inventory of health care professionals, of which this document is a part, can be found in the series preface at the beginning of the associated notebook.

This document provides an overview of doctors of medicine and surgery (MDs), doctors of osteopathy (DOs), and residents licensed by the Kansas Board of Healing Arts (BOHA) whose credential period was July 1, 2000 through June 30, 2001. The Kansas Board of Healing Arts provided fourth quarter licensure data for this report; the Center for Health and Environmental Statistics, Office of Health Care Information, of the Kansas Department of Health and Environment collected practice information with surveys (see Appendix A) and follow-up phone contact with Kansas physicians.

Completed questionnaires were received from 18,040 physicians (14,185 MDs, 1,340 DOs, and 2,515 residents). Of those, 4,509 MDs and 443 DOs were actively practicing in Kansas (Figure 1). There were also 508 residents with active status. This report will examine characteristics of physicians actively practicing in Kansas, such as age, gender, work settings, and specialties.

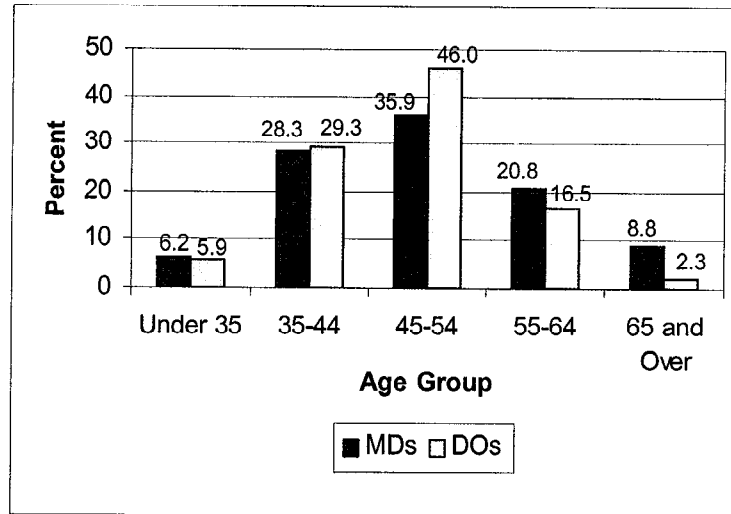
Figure 1. Physicians by Status, Practicing or Not Practicing in Kansas



Physicians by Age and Gender

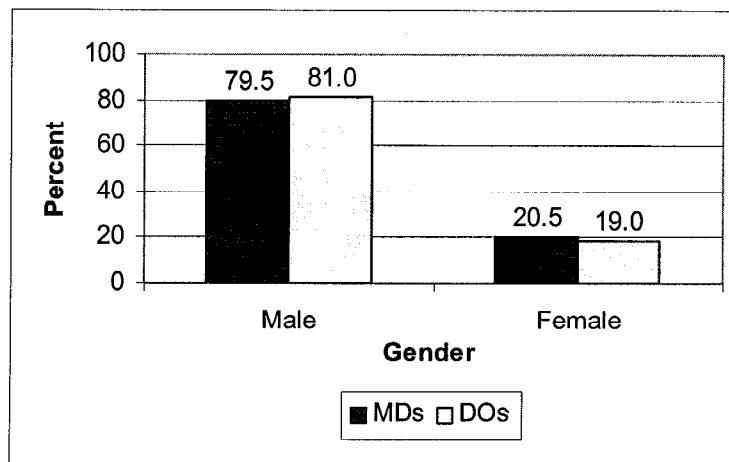
The largest number of physicians, both MDs and DOs, were in the 45-54 age group. Almost half (46.0%) of DOs were in that age group. MDs showed a higher concentration in the older age groups, with almost one tenth (8.8%) aged 65 and older.

Figure 2: Physicians by Age Group



For both MDs and DOs, males comprised about four-fifths of the physicians actively practicing in Kansas (79.5% and 81.0%, respectively).

Figure 3: Physicians by Gender



The largest number of male physicians actively practicing in Kansas was in the 45-54 age group, while female physicians had the highest concentration in the 35-44 age group. The percentage of female physicians varied from 4.7% in the 65-and-over age group to 41.5% in the under-35 age group, reflecting the continuing influx of females into medical practice (Figure 4 and Table 1).

Figure 4. Physicians by Age Group by Gender

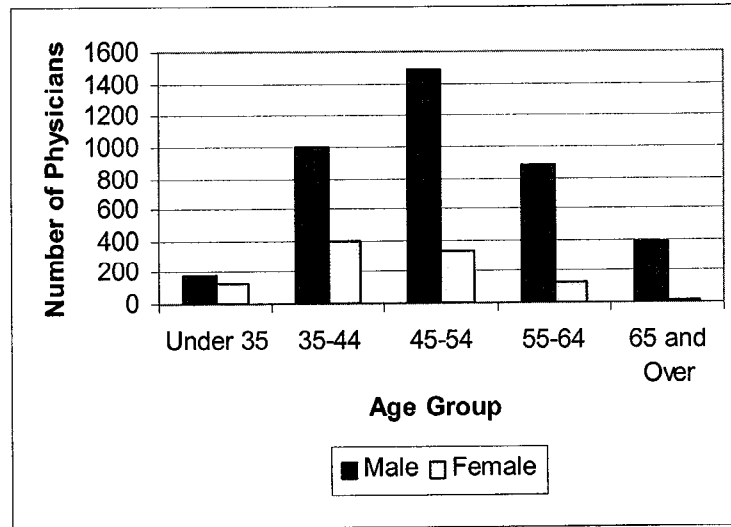


Table 1. Physicians by Age Group* by Gender

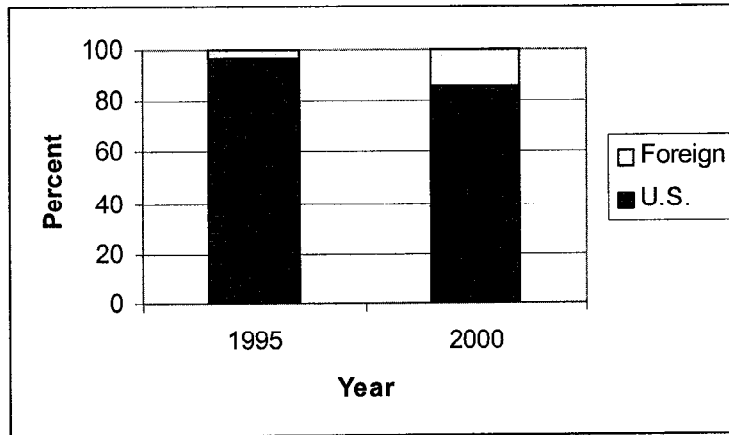
Age Group	Males		Females	
	Number	Percent	Number	Percent
Under 35	179	58.5	127	41.5
35 - 44	998	71.5	398	28.5
45 - 54	1486	81.7	333	18.3
55 - 64	882	87.2	130	12.8
65 and Over	385	95.3	19	4.7

* Age was not stated for 15 physicians.

U.S./Foreign Training

In 2000, 4,015 (85.9%) of the 4,674 physicians who responded to the question “Are you a graduate of a foreign medical school?” answered “No”; 659 (14.1%) answered “Yes”. These percentages, when compared with those from 1995 (96.6% and 3.4% respectively), reported in the “Review of Kansas Board of Healing Arts Professional Data, Vol. I, Physicians, 1995 Renewals,” show an increase in physicians who received their medical training outside the United States.

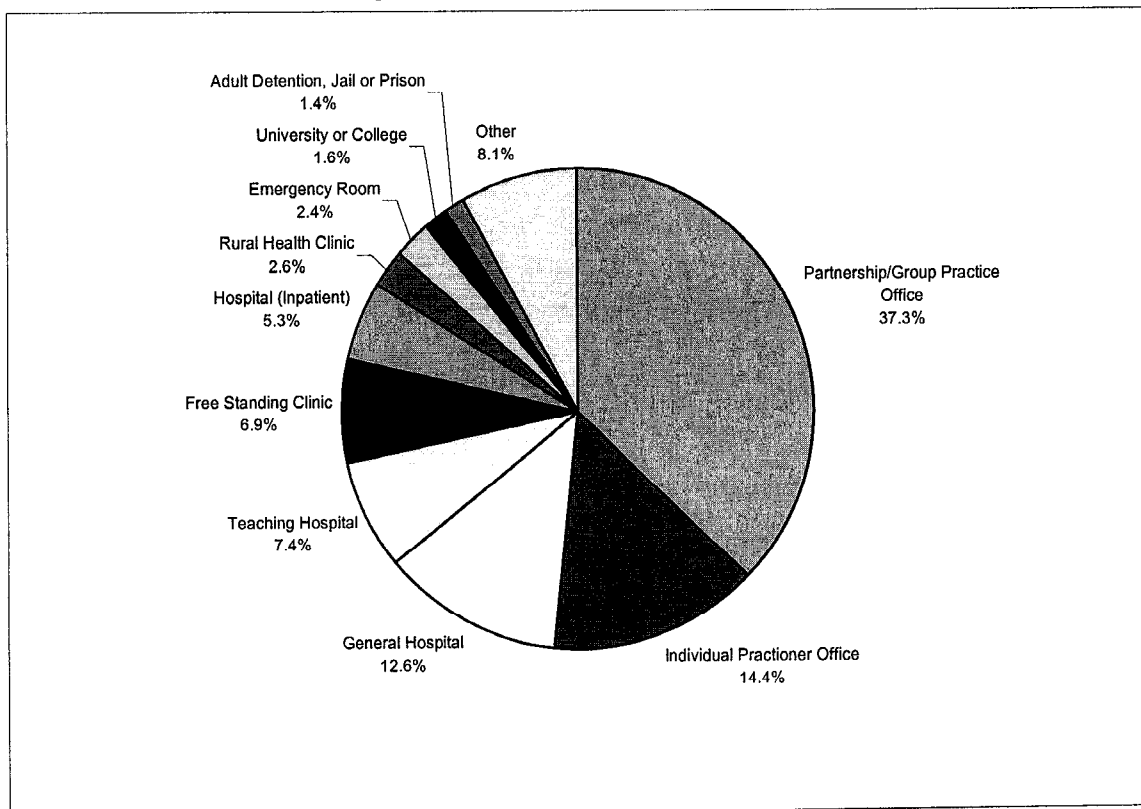
Figure 5: Physicians – U.S./Foreign Training



Work Settings

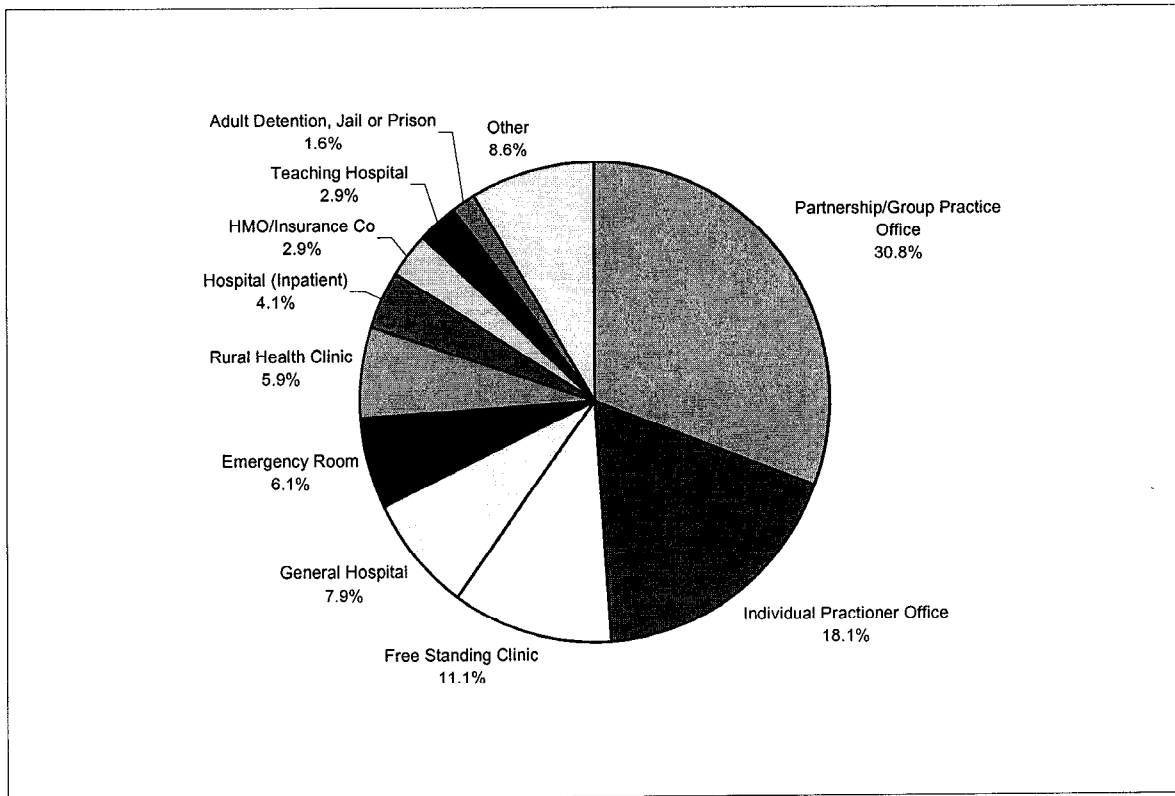
MDs answering the questionnaire reported 35 different types of primary work site. The greatest percentage (37.3%) worked in a partnership/group practice office. Over half (51.7%) worked in either a partnership/group practice office or an individual practitioner office. Other major practice settings are shown in figure 6. Some of the practice settings in the group “other” include: radiology/imaging centers, mental health facilities or centers, independent laboratories, and ambulatory surgery centers.

Figure 6: Work Settings for MDs



DOs answering the questionnaire reported 22 different types of primary work site. The greatest percentage (30.8%) worked in a partnership/group practice office. Slightly less than half (48.9%) worked in either a partnership/group practice office or an individual practitioner office. Other major practice settings are shown in figure 7. Some of the practice settings in the group “other” include: business/industrial establishments, community mental centers, ambulatory surgery centers, and universities or colleges.

Figure 7: Work Settings for DOs



Specialties

For the current survey, physicians were able to list three specialties in which they practice. All 4,509 MDs actively practicing in Kansas listed a first specialty, 1,323 listed a second specialty, and 255 listed a third specialty. Family practice was the first specialty of the highest percentage (17.6%) of MDs. Internal medicine was the first specialty of the next highest percentage (11.5%) and was also the second and third specialty of the highest percentage (25.6% and 19.2%, respectively) of MDs who reported second and third specialties (Tables 2, 3, and 4; Appendix B, Table B-1).

Table 2. MDs, Specialty 1

Specialty	Number	Percent
Family Practice	785	17.6
Internal Medicine	513	11.5
Psychiatry	256	5.7
Pediatrics	252	5.6
Anesthesiology	219	4.9
Obstetrics/Gynecology	201	4.5
Surgery, Orthopedic	200	4.5
Surgery, General	187	4.2
Radiology, Diagnostic	183	4.1
Cardiovascular Disease	168	3.8
Other	1,545	33.6
Not Stated	0	n.a.

Table 3. MDs, Specialty 2

Specialty	Number	Percent
Internal Medicine	339	25.6
Pediatrics	90	6.8
Geriatrics	59	4.5
Emergency Medicine	45	3.4
Family Practice	42	3.2
Psychiatry	41	3.1
General Practice	34	2.6
Hematology	34	2.6
Surgery, Thoracic	34	2.6
Psychiatry, Child	33	2.5
Other	572	43.1
Not Stated	3,186	n.a.

Table 4. MDs, Specialty 3

Specialty	Number	Percent
Internal Medicine	49	19.2
Surgery, General	11	4.3
Psychoanalysis	11	4.3
Pediatrics	8	3.0
Oncology	7	2.7
Emergency Medicine	6	2.4
Occupational/Industrial Med.	6	2.4
Surgery, Head/Neck	6	2.4
Pathology, Forensic	6	2.4
Hematology	5	2.0
Sports Medicine	5	2.0
Other	135	52.9
Not Stated	4,254	n.a.

All 443 DOs actively practicing in Kansas listed a first specialty, 90 listed a second specialty, and only 16 listed a third specialty. Family practice was the first specialty of the highest percentage (41.1%) of DOs. Internal medicine was the second specialty of the highest percentage (16.7%) of DOs (Tables 5 and 6; Appendix B, Table B-2).

Table 5. DOs, Specialty 1

Specialty	Number	Percent
Family Practice	182	41.1
General Practice	39	8.8
Internal Medicine	36	8.1
Emergency Medicine	23	5.2
Obstetrics/Gynecology	15	3.4
Pediatrics	13	2.9
Surgery, General	13	2.9
Anesthesiology	12	2.7
Radiology, Diagnostic	12	2.7
Psychiatry	11	2.5
Other	87	19.7
Not Stated	0	n.a.

Table 6. DOs, Specialty 2

Specialty	Number	Percent
Internal Medicine	15	16.7
Emergency Medicine	14	15.5
Family Practice	8	8.9
Psychiatry	6	6.7
Geriatrics	6	6.7
General Practice	5	5.6
Occupational/Industrial Medicine	4	4.4
Obstetrics/Gynecology	3	3.3
Pediatrics	3	3.3
Other	26	28.9
Not Stated	353	n.a.

Primary care physicians provide initial diagnosis and care for the majority of people seeking medical care. Their specialties are family practice, general practice, internal medicine, pediatrics, or obstetrics/gynecology. Of the 4,509 MDs actively practicing in Kansas, 2,335 (51.8%) listed at least one specialty as primary care. Of those physicians, 1,908 (81.7%) were board certified in that specialty. Of the 443 DOs actively practicing in Kansas, 315 (71.1%) listed at least one specialty as primary care. Of those, 238 (75.6%) were board certified in that specialty.

There were 564 MDs who listed surgery of any kind as specialty 1, 2, or 3, with 464 (82.3%) of those being board certified. There were 21 DOs who listed surgery of any kind as specialty 1, 2, or 3, with 16 (76.2%) of those being board certified (Table 7; Appendix B, Tables B-1 and B-2).

**Table 7. MDs and DOs
Primary Care and Surgical Specialties***

	MD				DO			
			Board Certified				Board Certified	
Specialty	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Primary Care	2,335	51.8	1,908	81.7	315	71.1	238	75.6
Surgery	564	12.5	464	82.3	21	4.7	16	76.2

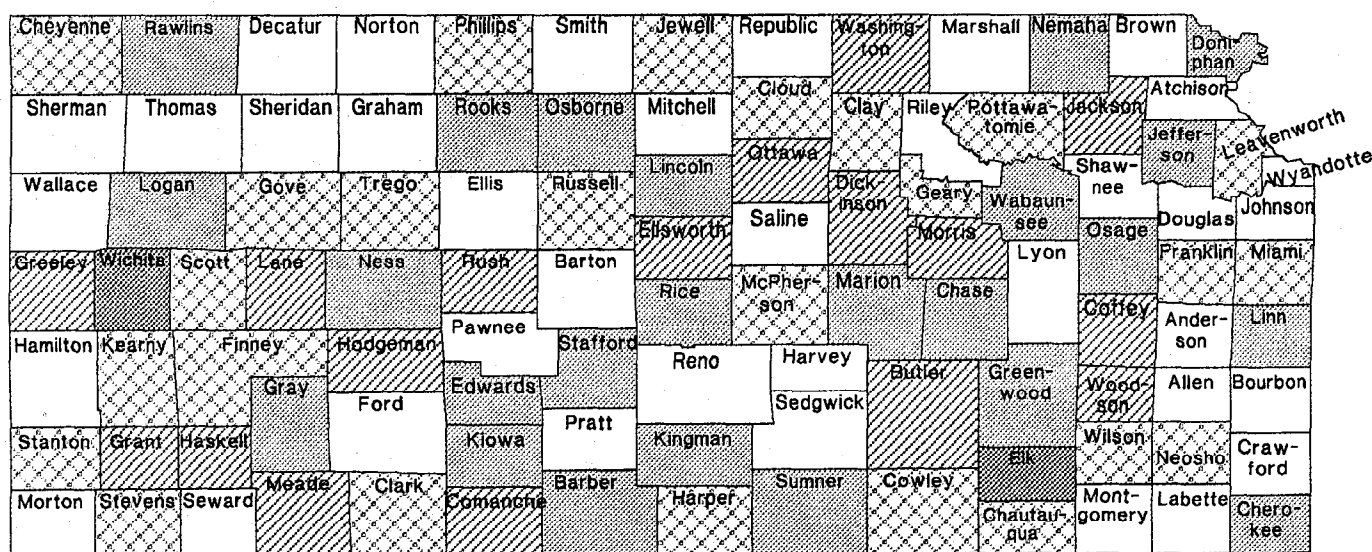
*Specialty 1, 2, or 3

Persons per Physician, by County

Calculations of persons per physician, for the purposes of this report, were based upon the first Kansas practice location listed on the survey form (see Appendix A). For example, a practitioner listing work site #1 as Kansas City, Missouri, work site #2 as Kansas City, Kansas (Wyandotte County), and work site #3 as Leavenworth, Kansas would be counted in Wyandotte County only.

Counties with the fewest persons per MD included Sherman (214), Wyandotte (314), Johnson (365), Ellis (410), and Thomas (439). There were two counties, Elk and Wichita counties, with no MDs, and another 15 counties with only one MD (Figure 8; Appendix C, Table C-1).

Figure 8 **Persons per MD**
By First Kansas County of Practice
Kansas, 2000



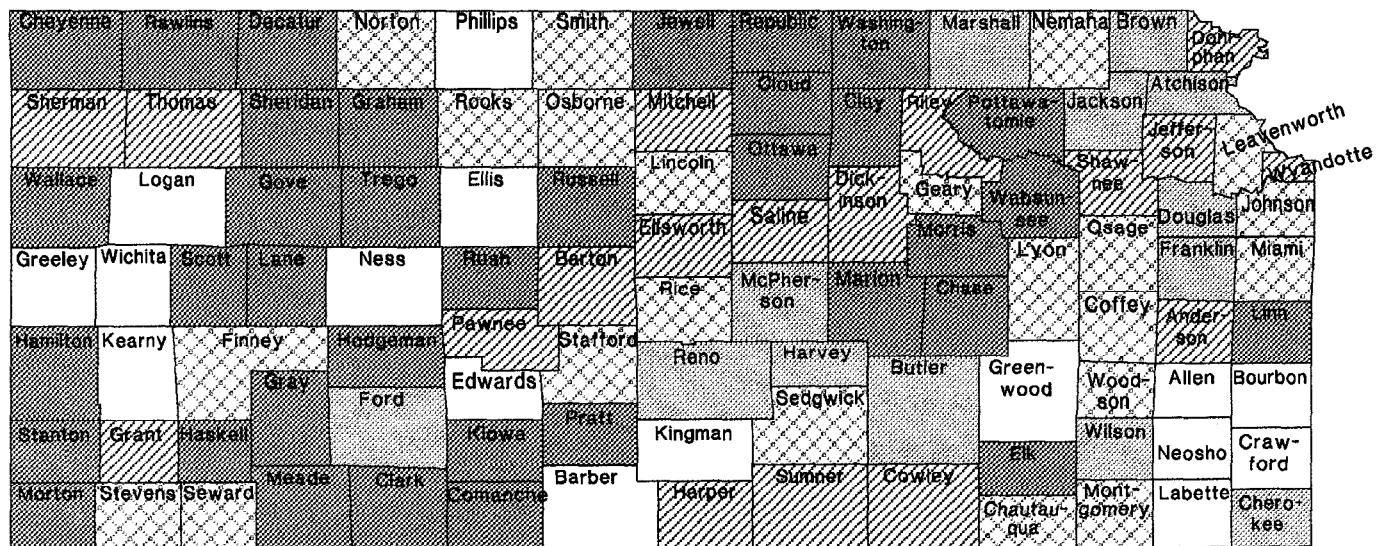
578 Persons per MD Statewide

Persons per MD	
	Less than 1,000
	1,000 - 1,499
	1,500 - 2,499
	2,500 and Over
	No MDs

Counties with the fewest persons per DO included Greeley (754), Ness (1,688), and Barber (1,747). There were 36 counties with no DOs (Figure 9; Appendix C, Table C-2).






Figure 9

Persons per DO
By First Kansas County of Practice
Kansas, 2000



5,884 Persons per DO Statewide

Persons per DO

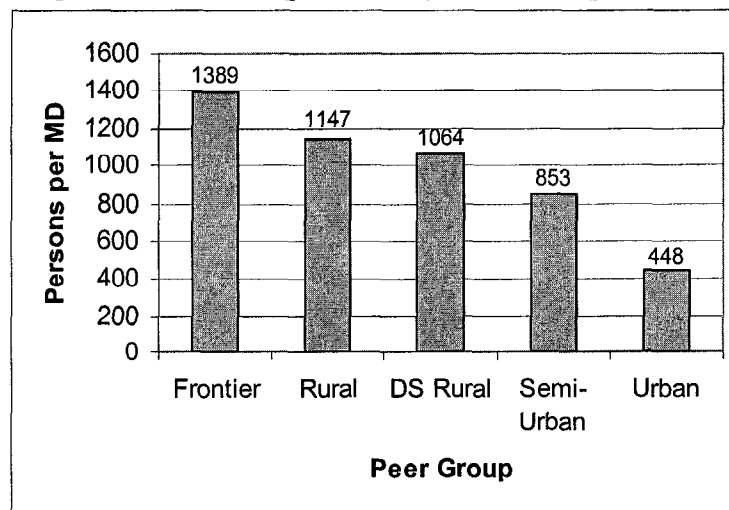
	Less than 3,500
	3,500 - 5,999
	5,600 - 9,999
	10,000 and Over
	No DOs

Persons per Physician, by Peer Groups of Counties

For the purposes of demographic analysis, counties in Kansas have been grouped by population density into “Peer Groups”, as defined by the Office of Local and Rural Health of the Kansas Department of Health and Environment. Frontier counties are defined as those with less than 6 persons per square mile, Rural counties as those with 6-19.9 persons per square mile, Densely-Settled Rural counties as those with 20-39.9 persons per square mile, Semi-Urban counties as those with 40-149.9 persons per square mile, and Urban counties as those with 150 or more persons per square mile. Counties within a peer group are not necessarily contiguous, and the definition of “Peer Groups”, as used here, should not be confused with the U.S. Census Bureau’s definition of urban and rural areas. Using the above definition, Kansas has 31 frontier counties, 38 rural counties, 19 densely-settled rural counties, 12 semi-urban counties and 5 urban counties (Appendix D, Figure D-1).

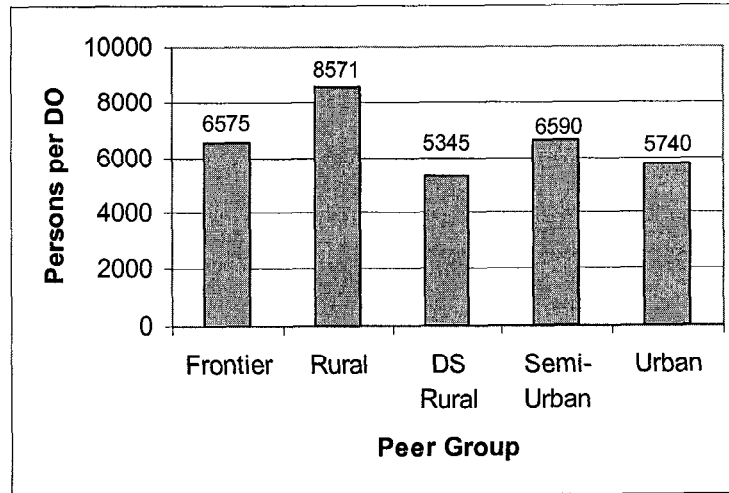
There were the fewest number of persons per MD (448) in Urban counties, with the number of persons per MD increasing as population decreased. Frontier counties as a whole had a ratio of 1,389 persons per MD (Figure 10).

Figure 10: Persons per MD, by Peer Group Counties



There were the fewest number of persons per DO (5,345) in Densely-Settled Rural counties. The number of persons per DO did not vary widely among the different Peer Groups, except for Rural counties, which had the highest number (8,571) of persons per DO (Figure 11).

Figure 11: Persons per DO, by Peer Group Counties



Persons per FTE Physician by County of Practice

Another method for examining the availability of physicians is by use of “full-time equivalents” (FTEs). The survey of physicians upon which this report is based (Appendix A) gathers information on the distribution of service hours by specialty by practice location. This data allows the calculation of full-time equivalency statistics by specialty by practice location for each responding physician. Population/physician ratios are calculated by county using this data.

Calculation of the number of full-time equivalent physicians by county is motivated by the need to identify health professional shortage areas. When inadequate health care availability is due to a shortage of primary care physicians, the area may qualify for federal programs due to designation as a Health Professional Shortage Area (HPSA) or Medically Underserved Area (MUA) or an area with a Medically Underserved Population (MUP) for primary care.

The calculation of full-time equivalents was prepared based on guidelines set forth by the Code of Federal Regulations (<http://www.access.gpo.gov/nara/cfr/>) 42CFR – Part 5, Appendix A – Criteria for Designation of Areas Having Shortages of Primary Medical Care Professionals. One full-time equivalent is based on a 40-hour workweek, and the number of hours worked at the three practice sites listed on the questionnaire was assigned to the respective counties. For example, a physician who worked 10 hours at practice site 1 in Shawnee County and 10 hours at practice site 2 in Jackson County would have been counted as .25 FTE in Shawnee County and .25 FTE in Jackson County. In cases where a physician’s total practice hours for all work sites exceeded 40, his FTE for each site was calculated as the proportion of hours practiced at that site. In no case was one physician assigned more than 1.0 FTE.

There were eight MDs who appear in tables in Appendix C, Persons per Physician by First Kansas County of Practice, but were not represented in calculations of FTEs by county due to unreported service hours.

Counties with the fewest persons per FTE MD included Wyandotte (378), Ellis (446), Shawnee (510), Pawnee (521), and Saline (534). There were two counties, Elk and Wichita counties, with no FTE MDs, and another four counties with less than 1.00 FTE MD (Appendix E, Table E-1).

Counties with the fewest persons per FTE DO included Ness (1,688), Greeley (1,713), Kearny (2,243), Allen (2,300), and Phillips (2,401). There were thirty-one counties with no FTE DOs, and another seventeen counties with less than 1.00 FTE DO (Appendix E, Table E-2).

Counties with the fewest persons per FTE physician (MD or DO) included Wyandotte (362), Ellis (392), Shawnee (478), Pawnee (482), and Johnson (498). There was one county with no FTE physician, and another two counties with less than 1.00 FTE physician (Appendix E, Table E-3).

Counties with the fewest persons per FTE primary care MD included Morton (860), Gove (1,005), Trego (1,070), Hodgeman (1,139), and Russell (1,164). There were two counties, Elk and Wichita counties, with no FTE MDs, and another eleven counties with less than 1.00 FTE MD (Appendix E, Table E-4).

Counties with the fewest persons per FTE primary care DO included Ness (1,705), Greeley (2,249), Wichita (2,506), Greenwood (2,571), and Logan (2,989). There were thirty-one counties with no FTE primary care DOs, and another thirty-two counties with less than 1.00 FTE primary care DO (Appendix E, Table E-5).

Counties with the fewest persons per FTE primary care physician (MD or DO) included Morton (860), Gove (1,005), Harper (1,068), Trego (1,070), and Sherman (1,096). There was one county with no FTE primary care physician, and another four counties with less than 1.00 FTE primary care physician (Appendix E, Table E-6).

National Comparisons

The American Medical Association, in *Physician Characteristics and Distribution in the U.S., 2001-2002 Edition*, shows Kansas as having 6,171 MDs in 1999, the most recent year for which data are available. By combining those numbers with U.S. Census Bureau information, it was calculated that Kansas ranked 33rd among states in the number of persons per MD, at 436. Other states ranged from 136 persons per MD in the District of Columbia to 830 persons per MD in Nevada (Appendix F, Table F-1).

The *American Osteopathic Association Fact Sheet* lists Kansas as having 523 DOs in 2000. By using U.S. Census Bureau figures for states' population, the number of persons per DO for Kansas was calculated at 5,140. Kansas ranked 12th among all states, which varied from 2,287 persons per DO in Michigan to 50,213 persons per MD in Louisiana (Appendix F, Table F-2).

Appendix A

Kansas Health Care Resource Questionnaire for Medicine and Surgery – 2000

KANSAS HEALTH CARE RESOURCE QUESTIONNAIRE FOR MEDICINE AND SURGERY - 2000

1. Sex ☐ (M)ale or (F)emale 2. Birth Date (Month/Day/Year) 3. Race ☐ White
☐ Black
☐ Native American
☐ Asian/Pacific Islander
☐ Other (Specify)

4. Please indicate whether you are of Hispanic ethnicity: ☐ Yes or No

5. Languages that you speak: ☐ English ☐ Sign Language
☐ Spanish ☐ Other (Specify)

6. Are you a graduate of a foreign medical school? ☐ (Yes or No)

7. Are you a citizen or permanent resident of the United States? ☐ (Yes or No)

8. Please indicate your practice specialties using the codes as used on your Licensure Renewal Application:

(Direct patient care means services provided to an individual patient, including personal contact, telephone consultations and related record keeping. It includes patient services provided by all Health Care Professionals, including Radiologists and Pathologists. It excludes time spent on call and in providing training, teaching, or research.)

**IF YOUR ANSWER TO QUESTION 17 IS NO, PLEASE SKIP TO THE SIGNATURE LINE ON THE NEXT PAGE.
IF YES, CONTINUE TO WORK SITE #2 ON THE NEXT PAGE.**

18. Work Site #2

Office Name	Street Address

City	State	Zip	Telephone	Fax

19. What kind of work setting is Site #2? (See below.) ☐ If other, please specify:

20. At this practice site, how many patients do you see during an average week?

21. How many hours of direct patient care do you provide at work site #2 in a typical week? Hours

22. Of the hours you spend in direct patient care at site #2, what percentages are in: % in Specialty 1: %

% in Specialty 2: %

% in Specialty 3: %

TOTAL = 100%

23. Do you have another direct patient care site in Kansas? (Office, hospital, nursing facility, etc. in Kansas.) ☐ Yes or No

IF YOUR ANSWER TO QUESTION 23 IS NO, PLEASE SKIP TO THE SIGNATURE LINE BELOW.

24. Work Site #3

Office Name	Street Address

City	State	Zip	Telephone	Fax

25. What kind of work setting is Site #3? (See below.) ☐ If other, please specify:

26. At this practice site, how many patients do you see during an average week?

27. How many hours of direct patient care do you provide at work site #3 in a typical week? Hours

28. Of the hours you spend in direct patient care at site #3, what percentages are in: % in Specialty 1: %

% in Specialty 2: %

% in Specialty 3: %

TOTAL = 100%

29. Do you have another direct patient care site in Kansas? (Office, hospital, nursing facility, etc. in Kansas.) ☐ Yes or No

IF YOUR ANSWER TO QUESTION 29 IS NO, PLEASE SKIP TO THE SIGNATURE LINE BELOW.

30. If you answered Yes to question 29, how many other direct patient care sites do you have in Kansas?

31. If you answered Yes to question 29, how many hours in total in a typical week do you spend in direct patient care in all of your other work sites (those referred to in question 29) combined?

Signature

Date

Work Setting Codes (Questions 13, 19 and 25)

- | | | |
|---|--|---|
| 1. Administrative/regulatory agency | 16. Indian Health Center | 29. State governmental agency |
| 2. Ambulance company | 17. Individual practitioner office | 30. Teaching Hospital |
| 3. Ambulatory surgery center | 18. Local health department | 31. University or College |
| 4. Assisted living facility | 19. Nursing/Long Term Care Facility | 32. Community Mental Health Center |
| 5. Business/Industrial establishment | 20. Partnership/group practice office | 33. Foster Home Care Agency |
| 6. Emergency Room | 21. Pharmacy | 34. Group Home Facility |
| 7. Federal hospital or facility | 22. Radiology/Imaging Center | 35. Private Psychiatric Hospital |
| 8. Federally qualified health center | 23. Rehabilitation Hospital | 36. Public School System |
| 9. Free standing clinic | 24. Rural health clinic | 37. Residential Treatment Facility for Emotionally Disturbed Children |
| 10. General hospital | 25. School district or educational cooperative | 38. Residential Treatment Facility for Mentally Retarded Children |
| 11. HMO/Insurance Company | 26. School clinic service environment | 39. Youth Detention Facility |
| 12. Home health agency | 27. State or community mental retardation facility | 40. Adult Detention, Jail or Prison |
| 13. Hospital (Physician provides mainly inpatient services) | 28. State or community mental health facility | 41. Other (specify) _____ |
| 14. Independent laboratory | | |
| 15. Independent living center | | |

Appendix B
Physicians by Specialty

Table B-1
MDs by Specialty, Kansas, 2000

Specialty	Specialty 1		Specialty 2*		Specialty 3**	
	Number	Board Certified	Number	Board Certified	Number	Board Certified
Family Practice	785	638	42	23	4	1
Internal Medicine	513	422	339	312	49	47
Psychiatry	256	169	41	30	4	2
Pediatrics	252	217	90	82	8	8
Anesthesiology	219	175	3	2	1	0
Obstetrics/Gynecology	201	160	16	13	0	0
Surgery, Orthopedic	200	159	2	1	0	0
Surgery, General	187	150	26	20	11	10
Radiology, Diagnostic	183	171	4	3	0	0
Cardiovascular Disease	168	156	16	12	2	2
Ophthalmology	158	143	0	0	0	0
Emergency Medicine	129	89	45	6	6	1
Pathology	122	116	8	7	1	1
Otorhinolaryngology	86	80	5	3	0	0
Urology	82	70	1	1	0	0
Gastroenterology	66	57	18	15	0	0
Neurology	62	41	3	2	1	0
General Practice	61	3	34	1	4	0
Pulmonary Disease	57	51	21	15	2	0
Physical Med/Rehab	53	39	0	0	0	0
Dermatology	48	45	3	2	0	0
Surgery, Plastic	47	42	12	8	1	1
Oncology	46	42	11	7	7	2
Nephrology	42	38	10	9	1	0
Allergy/Immunology	35	29	12	5	2	1
Psychiatry, Child	34	23	33	14	2	2
Radiology, Oncology	34	27	1	1	0	0
Neonatal-Perinatal Medicine	31	29	9	8	1	0
Radiology	31	27	1	0	1	1
Surgery, Cardiovascular	31	30	3	1	0	0
Surgery, Neurological	27	24	0	0	0	0
Rheumatology	21	19	8	5	1	0
Endocrinology	19	17	13	9	0	0
Infectious Disease	18	15	16	14	1	0
Occupational/Industrial Med.	18	6	24	2	6	0
Gynecology	17	17	4	4	0	0
Cardiology, Pediatric	10	10	4	2	0	0
Diabetes	9	5	4	4	3	3
Hematology	9	6	34	15	5	2
Surgery, Pediatric	9	9	1	1	0	0
Geriatrics	7	5	59	53	4	3
Neurology, Child	7	5	1	0	0	0
Surgery, Hand	7	4	26	18	0	0
Otology	5	4	1	0	0	0
Pathology, Clinical	5	5	21	18	2	2
Surgery, Colon/Rectal	5	5	5	0	1	0
Adolescent Medicine	4	2	7	3	0	0
Endocrinology, Pediatric	4	3	5	3	1	0

Table B-1
MDs by Specialty, Kansas, 2000

Specialty	Specialty 1		Specialty 2		Specialty 3	
	Number	Board Certified	Number	Board Certified	Number	Board Certified
Hematology/Oncology, Pediatric	4	2	3	3	1	1
Pathology, Forensic	4	3	0	0	6	2
Psychosomatic Medicine	4	0	0	0	0	0
Surgery, Maxillofacial	4	3	0	0	1	1
Radiation Therapy	4	4	1	1	0	0
Nephrology, Pediatric	3	3	3	3	0	0
Nuclear Medicine	3	2	12	9	0	0
Obstetrics	2	2	2	2	1	0
Pharmacology, Clinical	2	1	2	0	1	0
Radiology, Pediatric	2	2	4	3	1	1
Sports Medicine	2	1	17	10	5	5
Surgery, Thoracic	2	2	34	32	2	0
Aerospace Medicine	1	1	3	0	3	1
Laryngology	1	1	0	0	1	1
Neoplastic Disease	1	1	0	0	0	0
Neuropathology	1	1	2	1	0	0
Nutrition	1	0	0	0	3	0
Psychoanalysis	1	1	19	10	11	4
Surgery, Abdominal	1	0	7	5	1	1
Surgery, Traumatic	1	1	8	7	3	2
Pediatric Anesthesiology	1	0	0	0	0	0
Dermatopathology	0	0	12	10	0	0
Radiology, Nuclear	0	0	12	7	3	1
Surgery, Head/Neck	0	0	11	9	6	5
Allergy, Pediatric	0	0	9	7	1	1
Public Health	0	0	7	2	2	2
General Preventive Medicine	0	0	4	2	1	0
Legal Medicine	0	0	4	1	2	2
Blood Banking	0	0	2	1	1	1
Pathology, Radioisotopic	0	0	0	0	2	2
Other Specialty	44	37	103	71	65	48
Total	4,509	3,667	1,323*	950	255**	170

* 3,186 MDs did not list a second specialty.

*4,254 MDs did not list a third specialty.

Table B-2
DOs by Specialty, Kansas, 2000

Specialty	Specialty 1		Specialty 2*		Specialty 3**	
	Number	Board Certified	Number	Board Certified	Number	Board Certified
Family Practice	182	148	8	5	0	0
General Practice	39	18	5	3	1	0
Internal Medicine	36	26	15	12	1	1
Emergency Medicine	23	14	14	0	1	0
Obstetrics/Gynecology	15	14	3	1	0	0
Pediatrics	13	9	3	2	0	0
Surgery, General	13	11	1	0	0	0
Anesthesiology	12	8	0	0	0	0
Radiology, Diagnostic	12	11	0	0	0	0
Psychiatry	11	5	6	6	0	0
Occupational/Industrial Medicine	10	4	4	0	1	0
Cardiology	8	4	0	0	0	0
Psychiatry, Child	6	5	1	1	0	0
Radiology	6	6	0	0	0	0
Rehabilitation Medicine	6	5	0	0	0	0
Ophthalmology	5	4	1	0	0	0
Orthopedics	5	4	0	0	0	0
Pulmonary Disease	5	5	1	1	0	0
Allergy/Immunology	3	3	0	0	1	0
Otolaryngology	3	3	0	0	0	0
Physiatry	3	3	0	0	0	0
Surgery, Urological	3	3	0	0	0	0
Dermatology	2	2	0	0	0	0
Gastroenterology	2	2	0	0	1	0
Infectious Disease	2	2	0	0	0	0
Pathology	2	2	0	0	0	0
Pathology, Laboratory Med., Anatomic	2	2	1	1	0	0
Surgery, Orthopedic	2	0	0	0	0	0
Cardiology, Pediatric	1	0	0	0	0	0
Geriatrics	1	1	6	5	0	0
Gynecology	1	1	0	0	0	0
Neonatal-Perinatal Medicine	1	1	0	0	0	0
Nephrology	1	0	1	1	0	0
Neurology	1	1	0	0	0	0
Otorhinolaryngology	1	1	0	0	0	0
Radiation Therapy	1	1	0	0	0	0
Surgery, Obstetrical/Gynecological	1	1	0	0	0	0
Sports Medicine	0	0	2	1	2	0
Surgery, Peripheral Vascular	0	0	2	2	0	0
General Preventive Medicine	0	0	1	1	0	0
Medical Diseases of the Chest	0	0	1	0	0	0
Neuropsychiatry	0	0	1	0	0	0
Nuclear Medicine	0	0	1	0	0	0
Obstetrics	0	0	1	0	0	0
Pathology, Anatomic	0	0	1	1	0	0
Surgery, Oro-Facial Plastic	0	0	1	1	0	0
Aerospace Medicine	0	0	0	0	1	0
Public Health	0	0	0	0	1	0
Other	3	1	9	3	6	4
Total	443	331	90*	47	16**	5

* 353 DOs did not list a second specialty.

** 427 DOs did not list a third specialty.

Appendix C

Persons per Physician by First Kansas County of Practice

Table C-1

Persons per MD by First Kansas County of Practice
and Rank of County
Kansas, 2000

First Kansas County of Practice	*Adjusted Population	Number of MDs	Persons per MD	Rank	First Kansas County of Practice	*Adjusted Population	Number of MDs	Persons per MD	Rank
Allen	14,028	16	877	31	Linn	9,439	3	3,146	86
Anderson	7,983	9	887	32	Logan	2,989	1	2,989	85
Atchison	15,721	33	476	10	Lyon	34,322	38	903	33
Barber	5,242	2	2,621	81	Marion	12,596	5	2,519	80
Barton	27,433	32	857	28	Marshall	10,721	24	447	7
Bourbon	15,055	21	717	22	McPherson	27,917	23	1,214	52
Brown	10,522	14	752	24	Meade	4,517	3	1,506	63
Butler	57,472	36	1,596	67	Miami	27,605	19	1,453	61
Chase	2,917	1	2,917	84	Mitchell	6,587	7	941	35
Chautauqua	4,205	4	1,051	41	Montgomery	35,352	45	786	25
Cherokee	22,270	4	5,568	102	Morris	6,029	4	1,507	65
Cheyenne	3,111	3	1,037	40	Morton	3,439	6	573	14
Clark	2,344	2	1,172	48	Nemaha	10,219	2	5,110	99
Clay	8,657	7	1,237	53	Neosho	16,519	13	1,271	56
Cloud	9,606	9	1,067	42	Ness	3,375	1	3,375	90
Coffey	8,695	5	1,739	70	Norton	5,163	8	645	18
Comanche	1,897	1	1,897	72	Osage	16,479	3	5,493	101
Cowley	34,483	30	1,149	46	Osborne	4,333	1	4,333	96
Crawford	36,428	51	714	21	Ottawa	5,972	3	1,991	75
Decatur	3,351	6	559	13	Pawnee	6,329	14	452	8
Dickinson	19,006	11	1,728	68	Phillips	5,858	5	1,172	47
Doniphan	7,858	2	3,929	94	Pottawatomie	17,927	13	1,379	60
Douglas	91,248	122	748	23	Pratt	9,322	15	621	17
Edwards	3,388	1	3,388	92	Rawlins	2,910	1	2,910	83
Elk	3,175	0	-	-	Reno	61,537	102	603	16
Ellis	26,248	64	410	4	Republic	5,695	6	949	36
Ellsworth	5,699	3	1,900	73	Rice	9,882	3	3,294	89
Finney	39,951	35	1,141	45	Riley	53,529	77	695	20
Ford	31,676	37	856	27	Rooks	5,488	1	5,488	100
Franklin	24,192	19	1,273	57	Rush	3,463	2	1,732	69
Geary	27,336	23	1,189	50	Russell	7,161	7	1,023	39
Gove	3,015	3	1,005	38	Saline	52,154	99	527	12
Graham	2,877	3	959	37	Scott	5,034	4	1,259	55
Grant	7,838	4	1,960	74	Sedgwick	446,591	775	576	15
Gray	5,763	2	2,882	82	Seward	22,096	26	850	26
Greeley	1,507	1	1,507	64	Shawnee	164,975	356	463	9
Greenwood	7,482	1	7,482	103	Sheridan	2,769	3	923	34
Hamilton	2,627	3	876	30	Sherman	6,626	31	214	1
Harper	6,368	5	1,274	58	Smith	4,427	10	443	6
Harvey	31,429	65	484	11	Stafford	4,710	1	4,710	98
Haskell	4,272	2	2,136	78	Stanton	2,351	2	1,176	49
Hodgeman	2,050	1	2,050	76	Stevens	5,403	4	1,351	59
Jackson	12,426	5	2,485	79	Sumner	25,538	8	3,192	88
Jefferson	18,167	4	4,542	97	Thomas	7,899	18	439	5
Jewell	3,746	3	1,249	54	Trego	3,210	3	1,070	43
Johnson	446,108	1,223	365	3	Wabaunsee	6,773	2	3,387	91
Kearny	4,486	3	1,495	62	Wallace	1,724	2	862	29
Kingman	8,475	2	4,238	95	Washington	6,279	4	1,570	66
Kiowa	3,170	1	3,170	87	Wichita	2,506	0	-	-
Labette	21,978	32	687	19	Wilson	10,094	9	1,122	44
Lane	2,132	1	2,132	77	Woodson	3,674	2	1,837	71
Leavenworth	62,056	52	1,193	51	Wyandotte	156,290	497	314	2
Lincoln	3,502	1	3,502	93	KANSAS	2,606,468	**4,509	578	

* Source: 2000 Census. Adjusted population equals total population minus the population living in group quarters.

** includes 178 MDs who provided direct patient care in Kansas but did not specify county

Table C-2

Persons per DO by First Kansas County of Practice
and Rank of County
Kansas, 2000

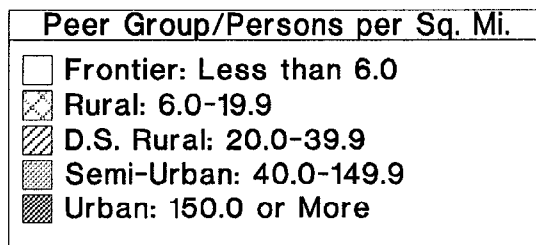
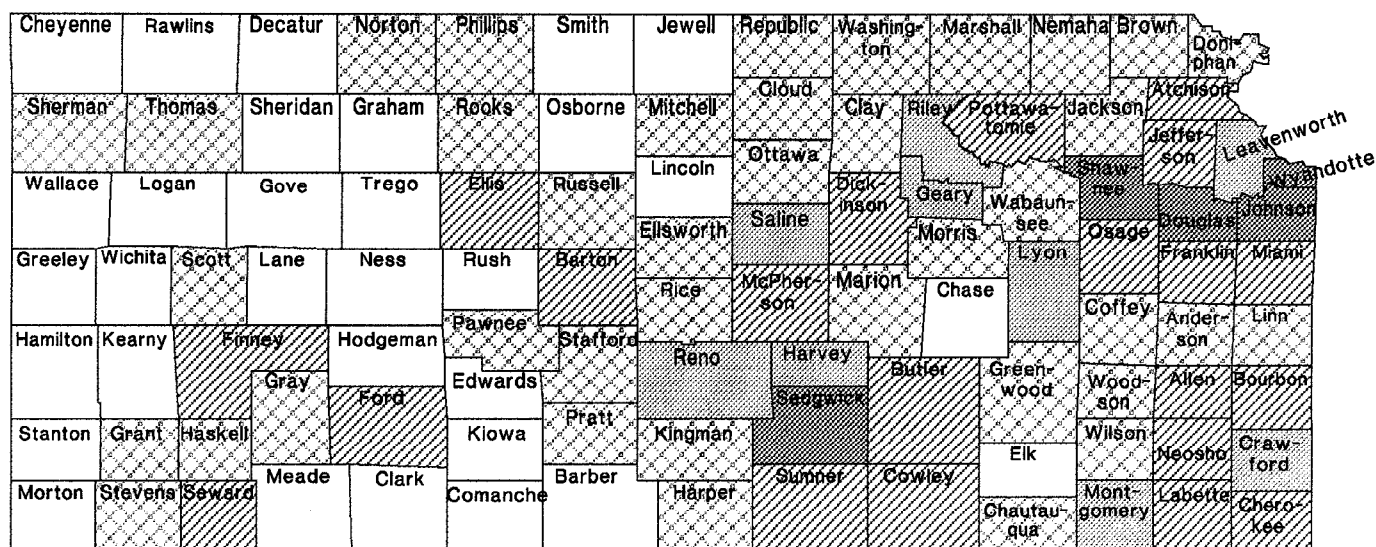
First Kansas County of Practice	*Adjusted Population	Number of DOs	Persons per DO	Rank	First Kansas County of Practice	*Adjusted Population	Number of DOs	Persons per DO	Rank
Allen	14,028	5	2,806	13	Linn	9,439	0	-	-
Anderson	7,983	1	7,983	52	Logan	2,989	1	2,989	15
Atchison	15,721	1	15,721	68	Lyon	34,322	6	5,720	39
Barber	5,242	3	1,747	3	Marion	12,596	0	-	-
Barton	27,433	3	9,144	56	Marshall	10,721	1	10,721	61
Bourbon	15,055	6	2,509	11	McPherson	27,917	1	27,917	69
Brown	10,522	1	10,522	59	Meade	4,517	0	-	-
Butler	57,472	4	14,368	67	Miami	27,605	6	4,601	27
Chase	2,917	0	-	-	Mitchell	6,587	1	6,587	44
Chautauqua	4,205	1	4,205	22	Montgomery	35,352	9	3,928	20
Cherokee	22,270	2	11,135	62	Morris	6,029	0	-	-
Cheyenne	3,111	0	-	-	Morton	3,439	0	-	-
Clark	2,344	0	-	-	Nemaha	10,219	3	3,406	17
Clay	8,657	0	-	-	Neosho	16,519	7	2,360	8
Cloud	9,606	0	-	-	Ness	3,375	2	1,688	2
Coffey	8,695	2	4,348	24	Norton	5,163	1	5,163	31
Comanche	1,897	0	-	-	Osage	16,479	3	5,493	37
Cowley	34,483	4	8,621	53	Osborne	4,333	1	4,333	23
Crawford	36,428	16	2,277	7	Ottawa	5,972	0	-	-
Decatur	3,351	0	-	-	Pawnee	6,329	1	6,329	40
Dickinson	19,006	3	6,335	41	Phillips	5,858	3	1,953	4
Doniphan	7,858	1	7,858	50	Pottawatomie	17,927	0	-	-
Douglas	91,248	8	11,406	63	Pratt	9,322	0	-	-
Edwards	3,388	1	3,388	16	Rawlins	2,910	0	-	-
Elk	3,175	0	-	-	Reno	61,537	5	12,307	65
Ellis	26,248	10	2,625	12	Republic	5,695	0	-	-
Ellsworth	5,699	1	5,699	38	Rice	9,882	2	4,941	30
Finney	39,951	10	3,995	21	Riley	53,529	7	7,647	48
Ford	31,676	3	10,559	60	Rooks	5,488	1	5,488	36
Franklin	24,192	2	12,096	64	Rush	3,463	0	-	-
Geary	27,336	5	5,467	35	Russell	7,161	0	-	-
Gove	3,015	0	-	-	Saline	52,154	6	8,692	54
Graham	2,877	0	-	-	Scott	5,034	0	-	-
Grant	7,838	1	7,838	49	Sedgwick	446,591	85	5,254	33
Gray	5,763	0	-	-	Seward	22,096	5	4,419	25
Greeley	1,507	2	754	1	Shawnee	164,975	23	7,173	47
Greenwood	7,482	3	2,494	9	Sheridan	2,769	0	-	-
Hamilton	2,627	0	-	-	Sherman	6,626	1	6,626	45
Harper	6,368	1	6,368	42	Smith	4,427	1	4,427	26
Harvey	31,429	3	10,476	58	Stafford	4,710	1	4,710	28
Haskell	4,272	0	-	-	Stanton	2,351	0	-	-
Hodgeman	2,050	0	-	-	Stevens	5,403	1	5,403	34
Jackson	12,426	1	12,426	66	Sumner	25,538	4	6,385	43
Jefferson	18,167	2	9,084	55	Thomas	7,899	1	7,899	51
Jewell	3,746	0	-	-	Trego	3,210	0	-	-
Johnson	446,108	93	4,797	29	Wabaunsee	6,773	0	-	-
Kearny	4,486	2	2,243	6	Wallace	1,724	0	-	-
Kingman	8,475	3	2,825	14	Washington	6,279	0	-	-
Kiowa	3,170	0	-	-	Wichita	2,506	1	2,506	10
Labette	21,978	11	1,998	5	Wilson	10,094	1	10,094	57
Lane	2,132	0	-	-	Woodson	3,674	1	3,674	19
Leavenworth	62,056	12	5,171	32	Wyandotte	156,290	23	6,795	46
Lincoln	3,502	1	3,502	18	KANSAS	2,606,468	443	5,884	-

* Source: 2000 Census. Adjusted population equals total population minus the population living in group quarters.

Appendix D
Peer Groups of Counties

Figure D-1

Peer Groups of Counties Kansas, 2002



Appendix E
Persons per FTE Physician by County of Practice

Table E-1

Persons per FTE MD by County of Practice
and Rank of County
Kansas, 2000

County of Practice	*Adjusted Population	Number of FTE MDs	Persons per FTE MD	Rank	County of Practice	*Adjusted Population	Number of FTE MDs	Persons per FTE MD	Rank
Allen	14,028	9.85	1,424	57	Linn	9,439	3.21	2,940	80
Anderson	7,983	6.32	1,263	48	Logan	2,989	1.15	2,599	78
Atchison	15,721	19.48	807	14	Lyon	34,322	35.19	975	25
Barber	5,242	2.04	2,570	76	Marion	12,596	6.18	2,038	71
Barton	27,433	30.20	908	21	Marshall	10,721	8.43	1,272	49
Bourbon	15,055	17.19	876	18	McPherson	27,917	24.10	1,158	38
Brown	10,522	10.67	986	28	Meade	4,517	2.09	2,161	73
Butler	57,472	36.86	1,559	60	Miami	27,605	20.49	1,347	54
Chase	2,917	0.89	3,278	90	Mitchell	6,587	6.79	970	24
Chautauqua	4,205	1.12	3,754	93	Montgomery	35,352	35.04	1,009	29
Cherokee	22,270	2.51	8,873	103	Morris	6,029	4.43	1,361	55
Cheyenne	3,111	1.80	1,728	64	Morton	3,439	6.00	573	8
Clark	2,344	2.31	1,015	30	Nemaha	10,219	3.40	3,006	82
Clay	8,657	5.76	1,503	59	Neosho	16,519	12.56	1,315	52
Cloud	9,606	8.42	1,141	36	Ness	3,375	1.03	3,277	89
Coffey	8,695	5.96	1,459	58	Norton	5,163	5.28	978	26
Comanche	1,897	1.00	1,897	67	Osage	16,479	3.22	5,118	99
Cowley	34,483	27.87	1,237	45	Osborne	4,333	1.34	3,234	86
Crawford	36,428	37.09	982	27	Ottawa	5,972	1.46	4,090	95
Decatur	3,351	2.36	1,420	56	Pawnee	6,329	12.14	521	4
Dickinson	19,006	9.41	2,020	70	Phillips	5,858	1.96	2,989	81
Doniphan	7,858	2.05	3,833	94	Pottawatomie	17,927	14.82	1,210	42
Douglas	91,248	112.63	810	15	Pratt	9,322	13.45	693	12
Edwards	3,388	0.98	3,457	92	Rawlins	2,910	2.51	1,159	39
Elk	3,175	0.00	-	-	Reno	61,537	97.98	628	10
Ellis	26,248	58.85	446	2	Republic	5,695	4.51	1,263	47
Ellsworth	5,699	2.40	2,375	74	Rice	9,882	3.02	3,272	88
Finney	39,951	34.76	1,149	37	Riley	53,529	72.11	742	13
Ford	31,676	36.13	877	19	Rooks	5,488	1.00	5,488	100
Franklin	24,192	20.83	1,161	40	Rush	3,463	1.85	1,872	66
Geary	27,336	22.37	1,222	43	Russell	7,161	7.46	960	22
Gove	3,015	3.11	969	23	Saline	52,154	97.75	534	5
Graham	2,877	3.19	902	20	Scott	5,034	3.21	1,568	61
Grant	7,838	4.39	1,785	65	Sedgwick	446,591	696.00	642	11
Gray	5,763	1.78	3,238	87	Seward	22,096	25.47	868	17
Greeley	1,507	0.79	1,908	68	Shawnee	164,975	323.77	510	3
Greenwood	7,482	1.82	4,111	96	Sheridan	2,769	2.43	1,140	35
Hamilton	2,627	2.06	1,275	50	Sherman	6,626	11.20	592	9
Harper	6,368	5.20	1,225	44	Smith	4,427	3.90	1,135	33
Harvey	31,429	55.85	563	7	Stafford	4,710	1.11	4,243	98
Haskell	4,272	1.65	2,589	77	Stanton	2,351	2.00	1,176	41
Hodgeman	2,050	1.80	1,139	34	Stevens	5,403	4.18	1,293	51
Jackson	12,426	4.89	2,541	75	Sumner	25,538	8.19	3,118	85
Jefferson	18,167	2.49	7,296	102	Thomas	7,899	7.24	1,091	32
Jewell	3,746	1.23	3,046	84	Trego	3,210	3.00	1,070	31
Johnson	446,108	829.77	538	6	Wabaunsee	6,773	1.22	5,552	101
Kearny	4,486	2.66	1,686	62	Wallace	1,724	0.41	4,205	97
Kingman	8,475	3.94	2,151	72	Washington	6,279	3.68	1,706	63
Kiowa	3,170	1.05	3,019	83	Wichita	2,506	0.00	-	-
Labette	21,978	25.80	852	16	Wilson	10,094	7.65	1,319	53
Lane	2,132	1.10	1,938	69	Woodson	3,674	1.33	2,762	79
Leavenworth	62,056	49.19	1,262	46	Wyandotte	156,290	413.56	378	1
Lincoln	3,502	1.02	3,433	91	KANSAS	2,606,468	3566.42	731	

* Source: 2000 Census. Adjusted population equals total population minus the population living in group quarters.

Table E-2

Persons per FTE DO by County of Practice
and Rank of County
Kansas, 2000

County of Practice	*Adjusted Population	Number of FTE DOs	Persons per FTE DO	Rank	County of Practice	*Adjusted Population	Number of FTE DOs	Persons per FTE DO	Rank
Allen	14,028	6.10	2,300	4	Linn	9,439	0.00	-	-
Anderson	7,983	0.73	10,936	60	Logan	2,989	1.00	2,989	11
Atchison	15,721	0.26	60,465	69	Lyon	34,322	5.20	6,600	41
Barber	5,242	1.90	2,759	10	Marion	12,596	0.00	-	-
Barton	27,433	3.75	7,315	43	Marshall	10,721	0.99	10,829	58
Bourbon	15,055	4.21	3,576	19	McPherson	27,917	0.23	121,378	72
Brown	10,522	0.03	350,733	74	Meade	4,517	0.00	-	-
Butler	57,472	3.94	14,587	66	Miami	27,605	5.80	4,759	28
Chase	2,917	0.00	-	-	Mitchell	6,587	0.45	14,638	67
Chautauqua	4,205	0.92	4,571	26	Montgomery	35,352	7.15	4,944	31
Cherokee	22,270	2.05	10,863	59	Morris	6,029	0.00	-	-
Cheyenne	3,111	0.00	-	-	Morton	3,439	0.00	-	-
Clark	2,344	0.00	-	-	Nemaha	10,219	2.93	3,488	16
Clay	8,657	0.00	-	-	Neosho	16,519	6.65	2,484	6
Cloud	9,606	0.05	192,120	73	Ness	3,375	2.00	1,688	1
Coffey	8,695	1.40	6,211	38	Norton	5,163	1.31	3,941	22
Comanche	1,897	0.00	-	-	Osage	16,479	2.73	6,036	37
Cowley	34,483	3.75	9,195	55	Osborne	4,333	1.00	4,333	24
Crawford	36,428	10.75	3,389	14	Ottawa	5,972	0.00	-	-
Decatur	3,351	0.00	-	-	Pawnee	6,329	1.00	6,329	39
Dickinson	19,006	3.00	6,335	40	Phillips	5,858	2.44	2,401	5
Doniphan	7,858	1.00	7,858	49	Pottawatomie	17,927	0.00	-	-
Douglas	91,248	7.55	12,086	65	Pratt	9,322	0.00	-	-
Edwards	3,388	1.01	3,354	13	Rawlins	2,910	0.00	-	-
Elk	3,175	0.00	-	-	Reno	61,537	5.59	11,008	61
Ellis	26,248	8.08	3,249	12	Republic	5,695	0.00	-	-
Ellsworth	5,699	0.69	8,259	51	Rice	9,882	1.75	5,647	35
Finney	39,951	8.48	4,711	27	Riley	53,529	7.09	7,550	45
Ford	31,676	2.82	11,233	62	Rooks	5,488	1.50	3,659	20
Franklin	24,192	2.06	11,744	63	Rush	3,463	0.00	-	-
Geary	27,336	5.00	5,467	33	Russell	7,161	0.00	-	-
Gove	3,015	0.00	-	-	Saline	52,154	6.53	7,987	50
Graham	2,877	0.00	-	-	Scott	5,034	0.07	71,914	70
Grant	7,838	1.00	7,838	48	Sedgwick	446,591	78.25	5,707	36
Gray	5,763	0.00	-	-	Seward	22,096	2.89	7,646	46
Greeley	1,507	0.88	1,713	2	Shawnee	164,975	21.51	7,670	47
Greenwood	7,482	3.00	2,494	7	Sheridan	2,769	0.06	46,150	68
Hamilton	2,627	0.00	-	-	Sherman	6,626	0.90	7,362	44
Harper	6,368	1.85	3,442	15	Smith	4,427	1.00	4,427	25
Harvey	31,429	3.36	9,354	56	Stafford	4,710	0.97	4,856	29
Haskell	4,272	0.00	-	-	Stanton	2,351	0.00	-	-
Hodgeman	2,050	0.00	-	-	Stevens	5,403	1.08	5,003	32
Jackson	12,426	1.04	11,948	64	Sumner	25,538	5.19	4,921	30
Jefferson	18,167	2.00	9,084	54	Thomas	7,899	0.94	8,403	52
Jewell	3,746	0.00	-	-	Trego	3,210	0.00	-	-
Johnson	446,108	66.63	6,695	42	Wabaunsee	6,773	0.00	-	-
Kearny	4,486	2.00	2,243	3	Wallace	1,724	0.40	4,310	23
Kingman	8,475	2.42	3,502	18	Washington	6,279	0.08	78,488	71
Kiowa	3,170	0.00	-	-	Wichita	2,506	1.00	2,506	8
Labette	21,978	8.14	2,700	9	Wilson	10,094	1.00	10,094	57
Lane	2,132	0.00	-	-	Woodson	3,674	1.00	3,674	21
Leavenworth	62,056	10.99	5,647	34	Wyandotte	156,290	17.84	8,761	53
Lincoln	3,502	1.00	3,502	17	KANSAS	2,606,468	381.36	6,835	-

* Source: 2000 Census. Adjusted population equals total population minus the population living in group quarters.

Table E-3

Persons per FTE Physician by County of Practice
and Rank of County
Kansas, 2000

County of Practice	*Adjusted Population	Number of FTE Physicians	Persons per FTE Physician	Rank	County of Practice	*Adjusted Population	Number of FTE Physicians	Persons per FTE Physician	Rank
Allen	14,028	15.95	879	26	Linn	9,439	3.21	2,940	96
Anderson	7,983	7.05	1,132	48	Logan	2,989	2.15	1,390	64
Atchison	15,721	19.74	796	20	Lyon	34,322	40.39	850	24
Barber	5,242	3.94	1,330	60	Marion	12,596	6.18	2,038	84
Barton	27,433	33.95	808	21	Marshall	10,721	9.42	1,138	50
Bourbon	15,055	21.40	704	15	McPherson	27,917	24.33	1,147	52
Brown	10,522	10.70	983	37	Meade	4,517	2.09	2,161	89
Butler	57,472	40.80	1,409	65	Miami	27,605	26.29	1,050	42
Chase	2,917	0.89	3,278	100	Mitchell	6,587	7.24	910	31
Chautauqua	4,205	2.04	2,061	85	Montgomery	35,352	42.19	838	23
Cherokee	22,270	4.56	4,884	103	Morris	6,029	4.43	1,361	63
Cheyenne	3,111	1.80	1,728	76	Morton	3,439	6.00	573	9
Clark	2,344	2.31	1,015	39	Nemaha	10,219	6.33	1,614	73
Clay	8,657	5.76	1,503	68	Neosho	16,519	19.21	860	25
Cloud	9,606	8.47	1,134	49	Ness	3,375	3.03	1,114	47
Coffey	8,695	7.36	1,181	56	Norton	5,163	6.59	783	19
Comanche	1,897	1.00	1,897	81	Osage	16,479	5.95	2,770	95
Cowley	34,483	31.62	1,091	45	Osborne	4,333	2.34	1,852	79
Crawford	36,428	47.84	761	17	Ottawa	5,972	1.46	4,090	102
Decatur	3,351	2.36	1,420	66	Pawnee	6,329	13.14	482	4
Dickinson	19,006	12.41	1,532	69	Phillips	5,858	4.40	1,331	61
Doniphan	7,858	3.05	2,576	93	Pottawatomie	17,927	14.82	1,210	57
Douglas	91,248	120.18	759	16	Pratt	9,322	13.45	693	14
Edwards	3,388	1.99	1,703	75	Rawlins	2,910	2.51	1,159	53
Elk	3,175	0.00	-	-	Reno	61,537	103.57	594	11
Ellis	26,248	66.93	392	2	Republic	5,695	4.51	1,263	58
Ellsworth	5,699	3.09	1,844	78	Rice	9,882	4.77	2,072	86
Finney	39,951	43.24	924	32	Riley	53,529	79.20	676	13
Ford	31,676	38.95	813	22	Rooks	5,488	2.50	2,195	90
Franklin	24,192	22.89	1,057	43	Rush	3,463	1.85	1,872	80
Geary	27,336	27.37	999	38	Russell	7,161	7.46	960	33
Gove	3,015	3.11	969	36	Saline	52,154	104.28	500	6
Graham	2,877	3.19	902	27	Scott	5,034	3.28	1,535	70
Grant	7,838	5.39	1,454	67	Sedgwick	446,591	774.25	577	10
Gray	5,763	1.78	3,238	99	Seward	22,096	28.36	779	18
Greeley	1,507	1.67	902	28	Shawnee	164,975	345.28	478	3
Greenwood	7,482	4.82	1,552	71	Sheridan	2,769	2.49	1,112	46
Hamilton	2,627	2.06	1,275	59	Sherman	6,626	12.10	548	8
Harper	6,368	7.05	903	29	Smith	4,427	4.90	903	30
Harvey	31,429	59.21	531	7	Stafford	4,710	2.08	2,264	91
Haskell	4,272	1.65	2,589	94	Stanton	2,351	2.00	1,176	55
Hodgeman	2,050	1.80	1,139	51	Stevens	5,403	5.26	1,027	40
Jackson	12,426	5.93	2,095	87	Sumner	25,538	13.38	1,909	82
Jefferson	18,167	4.49	4,046	101	Thomas	7,899	8.18	966	35
Jewell	3,746	1.23	3,046	98	Trego	3,210	3.00	1,070	44
Johnson	446,108	896.40	498	5	Wabaunsee	6,773	1.22	5,552	104
Kearny	4,486	4.66	963	34	Wallace	1,724	0.81	2,128	88
Kingman	8,475	6.36	1,333	62	Washington	6,279	3.76	1,670	74
Kiowa	3,170	1.05	3,019	97	Wichita	2,506	1.00	2,506	92
Labette	21,978	33.94	648	12	Wilson	10,094	8.65	1,167	54
Lane	2,132	1.10	1,938	83	Woodson	3,674	2.33	1,577	72
Leavenworth	62,056	60.18	1,031	41	Wyandotte	156,290	431.40	362	1
Lincoln	3,502	2.02	1,734	77	KANSAS	2,606,468	3947.78	660	

* Source: 2000 Census. Adjusted population equals total population minus the population living in group quarters.

Table E-4

Persons per FTE Primary Care MD by County of Practice
and Rank of County
Kansas, 2000

County of Practice	*Adjusted Population	Number of FTE Primary Care MDs	Persons per FTE Primary Care MD	Rank	County of Practice	*Adjusted Population	Number of FTE Primary Care MDs	Persons per FTE Primary Care MD	Rank
Allen	14,028	4.13	3,397	79	Linn	9,439	3.20	2,950	69
Anderson	7,983	4.65	1,717	26	Logan	2,989	1.14	2,622	60
Atchison	15,721	5.69	2,763	66	Lyon	34,322	16.31	2,104	52
Barber	5,242	1.73	3,030	70	Marion	12,596	3.93	3,205	74
Barton	27,433	13.49	2,034	48	Marshall	10,721	5.16	2,078	49
Bourbon	15,055	8.04	1,873	37	McPherson	27,917	15.50	1,801	29
Brown	10,522	5.91	1,780	28	Meade	4,517	2.01	2,247	54
Butler	57,472	21.76	2,641	61	Miami	27,605	10.45	2,642	62
Chase	2,917	0.90	3,241	75	Mitchell	6,587	4.89	1,347	11
Chautauqua	4,205	0.75	5,607	96	Montgomery	35,352	17.93	1,972	46
Cherokee	22,270	2.23	9,987	102	Morris	6,029	3.70	1,629	23
Cheyenne	3,111	0.24	12,963	103	Morton	3,439	4.00	860	1
Clark	2,344	1.44	1,628	22	Nemaha	10,219	2.73	3,743	83
Clay	8,657	4.56	1,898	38	Neosho	16,519	8.49	1,946	45
Cloud	9,606	5.24	1,833	33	Ness	3,375	1.02	3,309	78
Coffey	8,695	3.78	2,300	55	Norton	5,163	3.45	1,497	14
Comanche	1,897	0.43	4,412	91	Osage	16,479	2.45	6,726	99
Cowley	34,483	19.79	1,742	27	Osborne	4,333	1.32	3,283	76
Crawford	36,428	17.50	2,082	50	Ottawa	5,972	1.46	4,090	87
Decatur	3,351	1.84	1,821	31	Pawnee	6,329	4.05	1,563	20
Dickinson	19,006	7.32	2,596	59	Phillips	5,858	1.32	4,438	92
Doniphan	7,858	1.30	6,045	97	Pottawatomie	17,927	11.40	1,573	21
Douglas	91,248	40.66	2,244	53	Pratt	9,322	6.01	1,551	18
Edwards	3,388	0.79	4,289	90	Rawlins	2,910	1.50	1,940	44
Elk	3,175	0.00	-	-	Reno	61,537	40.38	1,524	16
Ellis	26,248	13.80	1,902	39	Republic	5,695	3.12	1,825	32
Ellsworth	5,699	2.29	2,489	57	Rice	9,882	2.43	4,067	86
Finney	39,951	12.97	3,080	71	Riley	53,529	28.06	1,908	40
Ford	31,676	16.46	1,924	41	Rooks	5,488	0.98	5,600	95
Franklin	24,192	9.03	2,679	64	Rush	3,463	1.85	1,872	36
Geary	27,336	8.66	3,157	72	Russell	7,161	6.15	1,164	5
Gove	3,015	3.00	1,005	2	Saline	52,154	36.63	1,424	12
Graham	2,877	2.17	1,326	9	Scott	5,034	2.94	1,712	25
Grant	7,838	2.37	3,307	77	Sedgwick	446,591	246.07	1,815	30
Gray	5,763	1.61	3,580	82	Seward	22,096	8.03	2,752	65
Greeley	1,507	0.60	2,512	58	Shawnee	164,975	89.50	1,843	34
Greenwood	7,482	1.77	4,227	89	Sheridan	2,769	2.07	1,338	10
Hamilton	2,627	1.26	2,085	51	Sherman	6,626	5.60	1,183	7
Harper	6,368	4.40	1,447	13	Smith	4,427	2.39	1,852	35
Harvey	31,429	24.94	1,260	8	Stafford	4,710	0.99	4,758	93
Haskell	4,272	1.60	2,670	63	Stanton	2,351	2.00	1,176	6
Hodgeman	2,050	1.80	1,139	4	Stevens	5,403	2.79	1,937	42
Jackson	12,426	3.28	3,788	84	Sumner	25,538	6.19	4,126	88
Jefferson	18,167	2.19	8,295	101	Thomas	7,899	3.93	2,010	47
Jewell	3,746	1.08	3,469	81	Trego	3,210	3.00	1,070	3
Johnson	446,108	285.92	1,560	19	Wabaunsee	6,773	1.10	6,157	98
Kearny	4,486	1.54	2,913	68	Wallace	1,724	0.33	5,224	94
Kingman	8,475	3.03	2,797	67	Washington	6,279	3.68	1,706	24
Kiowa	3,170	1.00	3,170	73	Wichita	2,506	0.00	-	-
Labette	21,978	9.24	2,379	56	Wilson	10,094	6.74	1,498	15
Lane	2,132	1.10	1,938	43	Woodson	3,674	0.91	4,037	85
Leavenworth	62,056	17.98	3,451	80	Wyandotte	156,290	101.02	1,547	17
Lincoln	3,502	0.50	7,004	100	KANSAS	2,606,468	1371.91	1,900	

* Source: 2000 Census. Adjusted population equals total population minus the population living in group quarters.

Table E5

Persons per FTE Primary Care DO by County of Practice
and Rank of County
Kansas, 2000

County of Practice	*Adjusted Population	Number of FTE Primary Care DOs	Persons per FTE Primary Care DO	Rank	County of Practice	*Adjusted Population	Number of FTE Primary Care DOs	Persons per FTE Primary Care DO	Rank
Allen	14,028	2.56	5,480	19	Linn	9,439	0.00	-	-
Anderson	7,983	0.54	14,783	46	Logan	2,989	1.00	2,989	5
Atchison	15,721	0.08	196,513	72	Lyon	34,322	2.41	14,241	44
Barber	5,242	1.60	3,276	6	Marion	12,596	0.00	-	-
Barton	27,433	1.67	16,427	51	Marshall	10,721	0.61	17,575	52
Bourbon	15,055	1.97	7,642	29	McPherson	27,917	0.15	186,113	71
Brown	10,522	0.02	526,100	74	Meade	4,517	0.00	-	-
Butler	57,472	2.33	24,666	61	Miami	27,605	2.96	9,326	33
Chase	2,917	0.00	-	-	Mitchell	6,587	0.32	20,584	57
Chautauqua	4,205	0.62	6,782	22	Montgomery	35,352	3.66	9,659	34
Cherokee	22,270	1.82	12,236	38	Morris	6,029	0.00	-	-
Cheyenne	3,111	0.00	-	-	Morton	3,439	0.00	-	-
Clark	2,344	0.00	-	-	Nemaha	10,219	2.35	4,349	13
Clay	8,657	0.00	-	-	Neosho	16,519	4.50	3,671	8
Cloud	9,606	0.04	240,150	73	Ness	3,375	1.98	1,705	1
Coffey	8,695	0.89	9,770	35	Norton	5,163	0.86	6,003	20
Comanche	1,897	0.00	-	-	Osage	16,479	2.08	7,923	30
Cowley	34,483	2.66	12,964	41	Osborne	4,333	0.98	4,421	14
Crawford	36,428	5.07	7,185	26	Ottawa	5,972	0.00	-	-
Decatur	3,351	0.00	-	-	Pawnee	6,329	0.33	19,179	54
Dickinson	19,006	2.33	8,157	31	Phillips	5,858	1.65	3,550	7
Doniphan	7,858	0.63	12,473	39	Pottawatomie	17,927	0.00	-	-
Douglas	91,248	2.73	33,424	66	Pratt	9,322	0.00	-	-
Edwards	3,388	0.82	4,132	12	Rawlins	2,910	0.00	-	-
Elk	3,175	0.00	-	-	Reno	61,537	2.30	26,755	63
Ellis	26,248	1.89	13,888	42	Republic	5,695	0.00	-	-
Ellsworth	5,699	0.65	8,768	32	Rice	9,882	1.41	7,009	24
Finney	39,951	3.17	12,603	40	Riley	53,529	2.76	19,395	55
Ford	31,676	1.28	24,747	62	Rooks	5,488	1.46	3,759	9
Franklin	24,192	0.89	27,182	64	Rush	3,463	0.00	-	-
Geary	27,336	1.94	14,091	43	Russell	7,161	0.00	-	-
Gove	3,015	0.00	-	-	Saline	52,154	2.44	21,375	59
Graham	2,877	0.00	-	-	Scott	5,034	0.06	83,900	70
Grant	7,838	0.54	14,515	45	Sedgwick	446,591	27.66	16,146	50
Gray	5,763	0.00	-	-	Seward	22,096	0.91	24,281	60
Greeley	1,507	0.67	2,249	2	Shawnee	164,975	5.94	27,774	65
Greenwood	7,482	2.91	2,571	4	Sheridan	2,769	0.05	55,380	68
Hamilton	2,627	0.00	-	-	Sherman	6,626	0.44	15,059	47
Harper	6,368	1.56	4,082	11	Smith	4,427	0.62	7,140	25
Harvey	31,429	1.50	20,953	58	Stafford	4,710	0.87	5,414	18
Haskell	4,272	0.00	-	-	Stanton	2,351	0.00	-	-
Hodgeman	2,050	0.00	-	-	Stevens	5,403	0.72	7,504	27
Jackson	12,426	0.70	17,751	53	Sumner	25,538	3.93	6,498	21
Jefferson	18,167	1.75	10,381	36	Thomas	7,899	0.51	15,488	49
Jewell	3,746	0.00	-	-	Trego	3,210	0.00	-	-
Johnson	446,108	22.96	19,430	56	Wabaunsee	6,773	0.00	-	-
Kearny	4,486	1.16	3,867	10	Wallace	1,724	0.33	5,224	16
Kingman	8,475	1.86	4,556	15	Washington	6,279	0.08	78,488	69
Kiowa	3,170	0.00	-	-	Wichita	2,506	1.00	2,506	3
Labette	21,978	2.91	7,553	28	Wilson	10,094	0.88	11,470	37
Lane	2,132	0.00	-	-	Woodson	3,674	0.69	5,325	17
Leavenworth	62,056	4.02	15,437	48	Wyandotte	156,290	4.35	35,929	67
Lincoln	3,502	0.50	7,004	23	KANSAS	2,606,468	146.70	17,767	

* Source: 2000 Census. Adjusted population equals total population minus the population living in group quarters.

Table E-6

Persons per FTE Primary Care Physician by County of Practice
and Rank of County
Kansas, 2000

County of Practice	*Adjusted Population	Number of FTE Primary Care Physicians	Persons per FTE Primary Care Physician	Rank	County of Practice	*Adjusted Population	Number of FTE Primary Care Physicians	Persons per FTE Primary Care Physician	Rank
Allen	14,028	6.69	2098	68	Linn	9,439	3.20	2950	88
Anderson	7,983	5.19	1539	28	Logan	2,989	2.14	1396	19
Atchison	15,721	5.77	2725	86	Lyon	34,322	18.72	1833	54
Barber	5,242	3.33	1573	30	Marion	12,596	3.93	3207	92
Barton	27,433	15.16	1809	50	Marshall	10,721	5.77	1859	55
Bourbon	15,055	10.01	1504	25	McPherson	27,917	15.65	1784	47
Brown	10,522	5.93	1775	45	Meade	4,517	2.01	2249	71
Butler	57,472	24.09	2386	74	Miami	27,605	13.41	2059	66
Chase	2,917	0.90	3254	93	Mitchell	6,587	5.21	1263	13
Chautauqua	4,205	1.37	3077	89	Montgomery	35,352	21.59	1637	37
Cherokee	22,270	4.05	5506	102	Morris	6,029	3.70	1630	35
Cheyenne	3,111	0.24	12741	104	Morton	3,439	4.00	860	1
Clark	2,344	1.44	1623	34	Nemaha	10,219	5.08	2011	65
Clay	8,657	4.56	1898	59	Neosho	16,519	12.99	1272	14
Cloud	9,606	5.28	1821	51	Ness	3,375	3.00	1125	6
Coffey	8,695	4.67	1861	56	Norton	5,163	4.31	1198	12
Comanche	1,897	0.43	4363	100	Osage	16,479	4.53	3640	97
Cowley	34,483	22.45	1536	26	Osborne	4,333	2.30	1881	58
Crawford	36,428	22.57	1614	33	Ottawa	5,972	1.46	4082	99
Decatur	3,351	1.84	1825	53	Pawnee	6,329	4.38	1444	21
Dickinson	19,006	9.65	1969	63	Phillips	5,858	2.97	1972	64
Doniphan	7,858	1.93	4071	98	Pottawatomie	17,927	11.40	1573	31
Douglas	91,248	43.39	2103	69	Pratt	9,322	6.01	1552	29
Edwards	3,388	1.61	2110	70	Rawlins	2,910	1.50	1937	61
Elk	3,175	0.00	-	-	Reno	61,537	42.68	1442	20
Ellis	26,248	15.69	1673	40	Republic	5,695	3.12	1824	52
Ellsworth	5,699	2.94	1936	60	Rice	9,882	3.84	2574	81
Finney	39,951	16.14	2476	77	Riley	53,529	30.82	1737	44
Ford	31,676	17.74	1785	48	Rooks	5,488	2.44	2251	72
Franklin	24,192	9.92	2438	75	Rush	3,463	1.85	1872	57
Geary	27,336	10.60	2579	82	Russell	7,161	6.15	1165	8
Gove	3,015	3.00	1005	2	Saline	52,154	39.07	1335	18
Graham	2,877	2.17	1328	17	Scott	5,034	3.00	1678	41
Grant	7,838	2.91	2694	85	Sedgwick	446,591	273.73	1631	36
Gray	5,763	1.61	3579	96	Seward	22,096	8.94	2472	76
Greeley	1,507	1.27	1191	11	Shawnee	164,975	95.44	1729	42
Greenwood	7,482	4.68	1599	32	Sheridan	2,769	2.12	1304	15
Hamilton	2,627	1.26	2077	67	Sherman	6,626	6.04	1096	5
Harper	6,368	5.96	1068	3	Smith	4,427	3.01	1473	23
Harvey	31,429	26.44	1189	10	Stafford	4,710	1.86	2528	80
Haskell	4,272	1.60	2670	84	Stanton	2,351	2.00	1176	9
Hodgeman	2,050	1.80	1139	7	Stevens	5,403	3.51	1538	27
Jackson	12,426	3.98	3120	90	Sumner	25,538	10.12	2524	79
Jefferson	18,167	3.94	4608	101	Thomas	7,899	4.44	1780	46
Jewell	3,746	1.08	3469	94	Trego	3,210	3.00	1070	4
Johnson	446,108	308.88	1444	22	Wabaunsee	6,773	1.10	6157	103
Kearny	4,486	2.70	1661	38	Wallace	1,724	0.66	2628	83
Kingman	8,475	4.89	1732	43	Washington	6,279	3.76	1668	39
Kiowa	3,170	1.00	3170	91	Wichita	2,506	1.00	2506	78
Labette	21,978	12.15	1808	49	Wilson	10,094	7.62	1325	16
Lane	2,132	1.10	1938	62	Woodson	3,674	1.60	2300	73
Leavenworth	62,056	22.00	2821	87	Wyandotte	156,290	105.37	1483	24
Lincoln	3,502	1.00	3502	95	KANSAS	2,606,468	1518.61	1716	

* Source: 2000 Census. Adjusted population equals total population minus the population living in group quarters.

Appendix F

Ranking of Persons per Physician by State

Table F-1
Ranking of Persons per MD by State, 1999

State	Population	Number of MDs	Persons per MD	Rank
Alabama	4,447,100	9,487	469	41
Alaska	626,932	1,150	545	47
Arizona	5,130,632	11,487	447	36
Arkansas	2,673,400	5,458	490	44
California	33,871,648	92,985	364	12
Colorado	4,301,261	11,115	387	21
Connecticut	3,405,565	13,020	262	5
Delaware	783,600	1,985	395	24
District of Columbia	572,059	4,211	136	1
Florida	15,982,378	43,835	365	13
Georgia	8,186,453	17,945	456	38
Hawaii	1,211,537	3,632	334	10
Idaho	1,293,953	2,240	578	50
Illinois	12,419,293	34,840	356	11
Indiana	6,080,485	13,000	468	40
Iowa	2,926,324	5,734	510	45
Kansas	2,688,418	6,171	436	33
Kentucky	4,041,769	9,187	440	34
Louisiana	4,468,976	11,806	379	17
Maine	1,274,923	3,356	380	18
Maryland	5,296,486	21,360	248	4
Massachusetts	6,349,097	28,062	226	2
Michigan	9,938,444	24,551	405	27
Minnesota	4,919,479	13,485	365	13
Mississippi	2,844,658	4,982	571	49
Missouri	5,595,211	13,674	409	28
Montana	902,195	2,010	449	37
Nebraska	1,711,263	4,111	416	30
Nevada	2,998,257	3,611	830	51
New Hampshire	1,235,786	3,274	377	16
New Jersey	8,414,350	26,606	316	8
New Mexico	1,819,046	4,231	430	32
New York	18,976,457	77,003	246	3
North Carolina	8,049,313	20,036	402	26
North Dakota	642,200	1,560	412	29
Ohio	11,353,140	29,358	387	21
Oklahoma	3,450,654	6,285	549	48
Oregon	3,421,399	8,825	388	23
Pennsylvania	12,281,054	38,524	319	9
Rhode Island	1,048,319	3,676	285	7
South Carolina	4,012,012	9,114	440	34
South Dakota	754,844	1,551	487	43
Tennessee	5,689,283	14,774	385	20
Texas	20,851,820	44,433	469	41
Utah	2,233,169	4,787	467	39
Vermont	608,827	2,148	283	6
Virginia	7,078,515	18,504	383	19
Washington	5,894,121	15,688	376	15
West Virginia	1,808,344	4,323	418	31
Wisconsin	5,363,675	13,452	399	25
Wyoming	493,782	950	520	46

Sources: U.S. Census Bureau, American FactFinder at <http://factfinder.census.gov/servlet/BasicFactsServlet> and *Physician Characteristics and Distribution in the U.S., 2001-2002 Edition*, American Medical Association, Table 2.7, p. 48.

Table F-2
Ranking of Persons per DO by State, 2000

State	Population	Number of DOs	Persons per DO	Rank
Alabama	4,447,100	287	15,495	40
Alaska	626,932	91	6,889	17
Arizona	5,130,632	1,059	4,845	11
Arkansas	2,673,400	167	16,008	41
California	33,871,648	2,244	15,094	39
Colorado	4,301,261	649	6,628	15
Connecticut	3,405,565	231	14,743	38
Delaware	783,600	179	4,378	10
District of Columbia	572,059	31	18,454	47
Florida	15,982,378	2,689	5,944	13
Georgia	8,186,453	577	14,188	36
Hawaii	1,211,537	127	9,540	21
Idaho	1,293,953	123	10,520	25
Illinois	12,419,293	1,822	6,816	16
Indiana	6,080,485	610	9,968	22
Iowa	2,926,324	923	3,170	5
Kansas	2,688,418	523	5,140	12
Kentucky	4,041,769	222	18,206	46
Louisiana	4,468,976	89	50,213	51
Maine	1,274,923	458	2,784	3
Maryland	5,296,486	443	11,956	33
Massachusetts	6,349,097	378	16,797	43
Michigan	9,938,444	4,346	2,287	1
Minnesota	4,919,479	255	19,292	49
Mississippi	2,844,658	226	12,587	34
Missouri	5,595,211	1,590	3,519	7
Montana	902,195	79	11,420	27
Nebraska	1,711,263	92	18,601	48
Nevada	2,998,257	279	10,746	26
New Hampshire	1,235,786	120	10,298	24
New Jersey	8,414,350	2,411	3,490	6
New Mexico	1,819,046	177	10,277	23
New York	18,976,457	2,647	7,169	18
North Carolina	8,049,313	350	22,998	50
North Dakota	642,200	55	11,676	32
Ohio	11,353,140	3,071	3,697	9
Oklahoma	3,450,654	1,215	2,840	4
Oregon	3,421,399	379	9,027	20
Pennsylvania	12,281,054	4,688	2,620	2
Rhode Island	1,048,319	165	6,353	14
South Carolina	4,012,012	228	17,597	44
South Dakota	754,844	65	11,613	30
Tennessee	5,689,283	322	17,669	45
Texas	20,851,820	2,545	8,193	19
Utah	2,233,169	137	16,301	42
Vermont	608,827	45	13,529	35
Virginia	7,078,515	482	14,686	37
Washington	5,894,121	515	11,445	28
West Virginia	1,808,344	492	3,675	8
Wisconsin	5,363,675	461	11,635	31
Wyoming	493,782	43	11,483	29

Sources: U.S. Census Bureau, American FactFinder at <http://factfinder.census.gov/servlet/BasicFactsServlet>
and American Osteopathic Association Fact Sheet at www.aoa-net.org/AOAGeneral/facts202.pdf